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10/688,527	10/17/2003	Maarten Menzo Wentink	050337-1160 (05CXT0054WL)	7957

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THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP
600 GALLERIA PARKWAY, S.E.
STE 1500
ATLANTA, GA 30339-5994

EXAMINER	
ANDREWS, LEON T	
ART UNIT	PAPER NUMBER
2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/688,527	WENTINK, MAARTEN MENZO	
	Examiner	Art Unit	
	LEON ANDREWS	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *28 May 2008*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-37* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-37* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Withdrawal of Finality

1. Finality of the Office action has been withdrawn in view of applicant's arguments of May 28, 2008. However, with the new grounds of rejection, the arguments are moot.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6, 8, 16, 20, 24, 26 and 34 are being rejected under 35 U.S.C. 103(a) as being unpatentable over Awater et al. (Patent No.: US 7,046,649 B2) in view of Gray et al. (Patent No.: US 6,473,419 B1).

Regarding Claim 1, Awater et al. discloses a method (method, column 3, line 52) comprising:

determining a power save status of a first station (Bluetooth radio in the Park mode is deactivated whilst the IEEE 802.11 transmission takes place, column 8, lines 3-6) wherein said first station communicates via a shared-communications channel (Fig. 4, HV1, forward and reverse links) in accordance with a first modulation scheme (Bluetooth radio using Frequency Shift Keying (FSK) modulation, column 8, lines 44-45); and

enabling transmission protection at a second station (IEEE 802.11 radio transceiver, column 4, line 24) via said shared-communications channel wherein said enabling is dependent on said power save status.

Awater et al. teaches the limitations of the claims including station, communication channel and modulation. But, Awater et al. fails to specifically teach power save status of a first station and enabling transmission protection at a second station.

However, Gray et al. teaches operation of a mobile station to the control hold power save for sensitive communication applications to ensure ready access to the communication channel and allocation of the dedicated channel to the mobile station, column 7, lines 18-26, transmission on the reverse dedicated channel is not required (transmission protection) when transitioning from the control hold to the control hold power save occurs and the reverse link dedicated control channel is turned off, column 7, lines 28-32.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use Gray et al.'s power save and transmission protection because this would have allowed the dedicated channel to be maintained, and signaling required to obtain a dedicated channel to be minimal, column 7, lines 39-41.

Regarding Claim 2, Awater et al. discloses the method of claim 1 wherein said determining comprises:

transmitting one of a Request-to-Send frame (RTS, request-to-send, column 8, lines 19-20), a Data frame, and a Null frame to said first station via said shared-communications channel in accordance with said first modulation scheme; and

receiving one of an Acknowledgement frame (acknowledgement, (ACK) frame, column 8, lines 18-19) and a Clear-to-Send frame (CTS, clear-to-send, column 8, lines 19-20) from said first station.

Regarding Claim 3, Awater et al. discloses the method of claim 1 wherein said enabling comprises broadcasting a management frame (management frames, column 2, line 8) via said shared-communications channel.

Regarding Claim 4, Awater et al. discloses the method of claim 3 wherein said management frame is one of:

(i) a Beacon frame (Beacon frames sent at a regular interval by an AP, column 2, lines 5-6) indicating that protection status is active; and

(ii) a Probe-Response frame (Probe Response frames sent by AP, column 2, lines 9-10) indicating that protection status is active (Probe Request frames sent by the STA are followed by the Probe Response frames sent by the AP which allows the STA to actively scan whether there is an AP operating on a certain channel frequency and to show what parameter settings this AP is using, column 2, lines 8-13).

Regarding Claim 5, Awater et al. discloses the method of claim 3 wherein said first modulation scheme is based on one of Barker modulation and Complementary Code Keying modulation (CCK, Complementary Code Keying, column 1, lines 43-44).

Regarding Claim 6, Awater et al. discloses a method comprising:

receiving a first frame from a station (Probe Request frames which are sent by an STA, column 2, lines 8-9) via a shared-communications channel (Fig. 4, HV1, forward and reverse links) wherein said station communicates in accordance with a first modulation scheme (Frequency Shift Keying (FSK) modulation, column 8, lines 44-45);

determining whether the station is in power save mode (Bluetooth radio system is deactivated into a Park mode whilst the IEEE 802.11 transmission takes place (column 8, lines 3-6). This causes Bluetooth radio system to be in a power save mode since the Bluetooth transmission is held back); and

broadcasting an IEEE 802.11 Probe-Response frame (Probe Response frames sent by the AP, column 2, lines 9-10) via said shared-communications channel in response to said receiving;

wherein said IEEE 802.11 Probe-Response frame indicates that protection status is active (Probe Request frames sent by the STA are followed by the Probe Response frames sent by the AP which allows the STA to actively scan whether there is an AP operating on a certain channel frequency and to show what parameter settings this AP is using, column 2, lines 8-13).

Awater et al. teaches the limitations of the claims including station, communication channel and modulation. But, Awater et al. fails to specifically teach station in power save.

However, Gray et al. teaches operation of a mobile station to the control hold power save for sensitive communication applications to ensure ready access to the communication channel and allocation of the dedicated channel to the mobile station, column 7, lines 18-26.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use Gray et al.'s power save because this would have allowed the dedicated channel to be maintained, and signaling required to obtain a dedicated channel to be minimal, column 7, lines 39-41.

Regarding Claim 7, Awater et al. discloses the method of claim 6 wherein said first modulation scheme is based on one of Barker modulation and Complementary Code Keying modulation (CCK, Complementary Code Keying, column 1, lines 43-44).

Regarding Claim 8, Awater et al. discloses a method (method, column 3, line 52) comprising alternately enabling (enable both radio systems to function together, column 8, line 38) and disabling (Bluetooth radio system is deactivated whilst an IEEE 802.11 transmission takes place,

column 8, lines 5-6) transmission protection at a first station (Bluetooth radio transceiver, column 4, line 25) that communicates via a shared-communications channel (Fig. 4, HV1, forward and reverse links) in accordance with a first modulation scheme (Frequency Shift Keying (FSK) modulation, column 8, lines 44-45);

wherein said first modulation scheme is undetectable to a second station (IEEE 802.11 radio transceiver, column 4, line 24) that communicates via said shared-communications channel in accordance with a second modulation scheme (PPM, pulse position modulation, column 1, lines 39-40) wherein the enabling or disabling of the transmission protection is associated with a determination of whether the first station is in a power save mode; and

wherein said first modulation scheme and said second modulation scheme are different from each other.

Awater et al. teaches the limitations of the claims including station, communication channel and modulation. But, Awater et al. fails to specifically teach first station in power save and enabling transmission protection.

However, Gray et al. teaches operation of a mobile station to the control hold power save for sensitive communication applications to ensure ready access to the communication channel and allocation of the dedicated channel to the mobile station, column 7, lines 18-26, transmission on the reverse dedicated channel is not required (transmission protection) when transitioning from the control hold to the control hold power save occurs and the reverse link dedicated control channel is turned off, column 7, lines 28-32.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use Gray et al.'s power save and transmission protection because this would have allowed the dedicated channel to be maintained, and signaling required to obtain a dedicated channel to be minimal, column 7, lines 39-41.

Regarding Claim 9, Awater et al. discloses the method of claim 8 wherein said enabling and said disabling are periodic (transmit periodically, column 8, lines12-13) with respect to one of (i) frames transmitted and (ii) time (Fig. 4, TS1).

Regarding Claim 10, Awater et al. discloses the method of claim 8 wherein said enabling and said disabling are sporadic (transmit and receive periodically, column 8, lines 12-13) with respect to one of (i) frames transmitted and (ii) time (Fig. 4, TS1).

Regarding Claim 11, Awater et al. discloses the method of claim 8 further comprising extending transmission protection for a first interval (Fig. 4, TS1) when receiving a first frame (Probe Request frames which are sent by an STA, column 2, lines 8-9) from said second station while transmission protection is enabled, wherein said first interval is measured in one of (i) time (Fig. 4, TS1) and (ii) frames.

Regarding Claim 12, Awater et al. discloses the method of claim 8 further comprising activating protection for a first interval (Fig. 4, TS1) when receiving a first frame (Probe Request frames which are sent by an STA, column 2, lines 8-9) from said second station while

transmission protection is disabled, wherein said first interval is measured in one of (i) time (Fig. 4, TS1) and (ii) frames.

Regarding Claim 13, Awater et al. discloses the method of claim 8 wherein said enabling comprises transmitting a first management frame (management frames, column 2, line 8) via said shared-communications channel.

Regarding Claim 14, Awater et al. discloses the method of claim 13 wherein said first management frame is one of:

(i) a Beacon frame (Beacon frames sent at a regular interval by an AP, column 2, lines 5-6) indicating that protection status is active; and

(ii) a Probe-Response frame (Probe Response frames sent by the AP, column 2, lines 9-10) indicating that protection status is active (Probe Request frames sent by the STA are followed by the Probe Response frames sent by the AP which allows the STA to actively scan whether there is an AP operating on a certain channel frequency and to show what parameter settings this AP is using, column 2, lines 8-13).

Regarding Claim 15, Awater et al. discloses the method of claim 8:

wherein said first modulation scheme is based on one of Barker modulation and Complementary Code Keying modulation (CCK, Complementary Code Keying, column 1, lines 43-44); and

wherein said second modulation scheme is based on Orthogonal Frequency Division Multiplexing modulation (OFDM, Orthogonal Frequency Division Multiplexing, column 1, lines 47-48).

Regarding Claim 16, Awater et al. discloses a method (method, column 3, line 52) comprising:

transmitting a first frame (Probe Request frames which are sent by an STA, column 2, lines 8-9) comprising a duration field value (Fig. 3, duration of HV-I is 330 us, column 8, lines 60-61) to a first station (Bluetooth radio transceiver, column 4, line 25) via a shared-communications channel (Fig. 4, HV1, forward and reverse links) in accordance with a first modulation scheme (Frequency Shift Keying (FSK) modulation, column 8, lines 44-45);

receiving a second frame (Beacon frames sent at a regular interval by an AP, column 2, lines 5-6) from a second station (IEEE 802.11 radio transceiver, column 4, line 24) via said shared-communications channel in accordance with a second modulation scheme (PPM, pulse position modulation, column 1, lines 39-40) during a time interval (Fig. 4, TS1 – TS8) defined by said duration field value;

determining whether the second station is in power save mode (IEEE 802.11 transmission is held back or in the Park mode if the Bluetooth ACL packet transmission or reception is in progress (column 11, lines 1-6). This causes the IEEE 802.11 to be in a power save mode since it is being held back); and

receiving a third frame (Probe Response frames sent by the AP, column 2, lines 9-10) via said shared-communications channel in accordance with said first modulation scheme after said time interval (Fig. 4, TS3);

wherein said first modulation scheme is undetectable to said second station; and

wherein said first modulation scheme and said second modulation scheme are different from each other.

Awater et al. teaches the limitations of the claims including station, communication channel and modulation. But, Awater et al. fails to specifically teach second station in power save.

However, Gray et al. teaches transmission on the reverse link dedicated control channel when transition indicated that the control hold to the control hold power save occurs, the reverse link dedicated channel is turned off, column 7, lines 28-32.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use Gray et al.'s power save because this would have allowed the dedicated channel to be maintained, and signaling required to obtain a dedicated channel to be minimal, column 7, lines 39-41.

Regarding Claim 17, Awater et al. discloses the method of claim 16:

wherein said first modulation scheme is based on Orthogonal Frequency Division Multiplexing modulation (OFDM, Orthogonal Frequency Division Multiplexing, column 1, lines 47-48); and

wherein said second modulation scheme is based on one of Barker modulation and Complementary Code Keying modulation (CCK, Complementary Code Keying, column 1, lines 43-44).

Regarding Claim 18, Awater et al. discloses the method of claim 16 wherein said transmitting is one of (i) periodic (periodic transmissions, claim 29, column 15, line 40) and (ii) sporadic.

Regarding Claim 19, Awater et al. discloses the method of claim 16 wherein said frame is a Clear-to-Send frame (CTS, clear-to-send, column 8, lines 19-20) and said first station is the sender of said frame.

Regarding Claim 20, Awater et al. discloses an apparatus (Bluetooth radio transceiver, column 4, line 25) comprising:

a processor (Fig. 6, CPU 622) for determining a power save status of a first station (Bluetooth radio in the Park mode is deactivated whilst the IEEE 802.11 transmission takes place, column 8, lines 3-6) wherein said first station communicates via a shared-communications channel (Fig. 4, HV1, forward and reverse links) in accordance with a first modulation scheme (Frequency Shift Keying (FSK) modulation, column 8, lines 44-45); and

a transmitter (Bluetooth radio transceiver, column 4, line 25) for enabling transmission protection at a second station (IEEE 802.11 radio transceiver, column 4, line 24) via said shared-communications channel wherein said enabling is dependent on said power save status.

Awater et al. teaches the limitations of the claims including station, communication channel and modulation. But, Awater et al. fails to specifically teach power save status of a first station and enabling transmission protection at a second station.

However, Gray et al. teaches operation of a mobile station to the control hold power save for sensitive communication applications to ensure ready access to the communication channel and allocation of the dedicated channel to the mobile station, column 7, lines 18-26, transmission on the reverse dedicated channel is not required (transmission protection) when transitioning from the control hold to the control hold power save occurs and the reverse link dedicated control channel is turned off, column 7, lines 28-32.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use Gray et al.'s power save and transmission protection because this would have allowed the dedicated channel to be maintained, and signaling required to obtain a dedicated channel to be minimal, column 7, lines 39-41.

Regarding Claim 21, it is the corresponding apparatus claim to method **Claim 3**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 22, it is the corresponding apparatus claim to method **Claim 4**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 23, it is the corresponding apparatus claim to method **Claim 5**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 24, Awater et al. discloses an apparatus (Bluetooth radio transceiver, column 4, line 25) comprising:

a receiver (Bluetooth radio transceiver, column 4, line 25) for receiving a first frame from a station (Probe Request frames which are sent by an STA, column 2, lines 8-9) via a shared-communications channel (Fig. 4, HV1, forward and reverse links) wherein said station communicates in accordance with a first modulation scheme (Frequency Shift Keying (FSK) modulation, column 8, lines 44-45 and for determining whether the station is in power save mode (Bluetooth radio system is deactivated into a Park mode whilst the IEEE 802.11 transmission takes place (column 8, lines 3-6). This causes Bluetooth radio system to be in a power save mode since the Bluetooth transmission is held back); and

a transmitter (Bluetooth radio transceiver, column 4, line 25) for broadcasting an IEEE 802.11 Probe-Response frame (Probe Response frames sent by the AP, column 2, lines 9-10) via said shared-communications channel in response to said receiving;

wherein said IEEE 802.11 Probe-Response frame indicates that protection status is active (Probe Request frames sent by the STA are followed by the Probe Response frames sent by the AP which allows the STA to actively scan whether there is an AP operating on a certain channel frequency and to show what parameter settings this AP is using, column 2, lines 8-13).

Awater et al. teaches the limitations of the claims including station, communication channel and modulation. But, Awater et al. fails to specifically teach station in power save.

However, Gray et al. teaches operation of a mobile station to the control hold power save for sensitive communication applications to ensure ready access to the communication channel and allocation of the dedicated channel to the mobile station, column 7, lines 18-26.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use Gray et al.'s power save because this would have allowed the dedicated channel to be maintained, and signaling required to obtain a dedicated channel to be minimal, column 7, lines 39-41.

Regarding Claim 25, it is the corresponding apparatus claim to method **Claim 7**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 26, Awater et al. discloses an apparatus (Bluetooth radio transceiver, column 4, line 25) comprising:

a receiver (Bluetooth radio transceiver, column 4, line 25) for receiving in accordance with a first modulation scheme (Frequency Shift Keying (FSK) modulation, column 8, lines 44-45) and a second modulation scheme (PPM, pulse position modulation, column 1, lines 39-40) via a shared-communications channel (Fig. 4, HV1, forward and reverse links); and

a transmitter (Bluetooth radio transceiver, column 4, line 25) for alternately enabling (enable both radio systems to function together, column 8, line 38) and disabling (Bluetooth radio system is deactivated whilst an IEEE 802.11 transmission takes place, column 8, lines 5-6) transmission protection at a first station (Bluetooth radio transceiver, column 4, line 25) responsive to determining that the station is in power save mode (Bluetooth radio system is deactivated into a Park mode whilst the IEEE 802.11 transmission takes place (column8, lines 3-6). This causes Bluetooth radio system to be in a power save mode since the Bluetooth transmission is held back), wherein the first station communicates via a shared-communications

channel (Fig. 4, HV1, forward and reverse links) in accordance with a first modulation scheme (Frequency Shift Keying (FSK) modulation, column 8, lines 44-45);

wherein said first modulation scheme is undetectable to a second station (IEEE 802.11 radio transceiver, column 4, line 24) that communicates via said shared-communications channel in accordance with a second modulation scheme (PPM, pulse position modulation, column 1, lines 39-40); and

wherein said first modulation scheme and said second modulation scheme are different from each other.

Awater et al. teaches the limitations of the claims including interval and frame. But, Awater et al. fails to specifically teach power save status of a first station.

However, Gray et al. teaches operation of a mobile station to the control hold power save for sensitive communication applications to ensure ready access to the communication channel and allocation of the dedicated channel to the mobile station, column 7, lines 18-26.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use Gray et al.'s power save this would have allowed the dedicated channel to be maintained, and signaling required to obtain a dedicated channel to be minimal, column 7, lines 39-41.

Regarding Claim 27, it is the corresponding apparatus claim to method **Claim 9**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 28, it is the corresponding apparatus claim to method **Claim 10**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 29, it is the corresponding apparatus claim to method **Claim 11**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 30, it is the corresponding apparatus claim to method **Claim 12**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 31, it is the corresponding apparatus claim to method **Claim 13**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 32, it is the corresponding apparatus claim to method **Claim 14**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 33, it is the corresponding apparatus claim to method **Claim 15**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 34, Awater et al. discloses an apparatus (Bluetooth radio transceiver, column 4, line 25) comprising:

a transmitter (Bluetooth radio transceiver, column 4, line 25) for transmitting a first frame (Probe Request frames which are sent by an STA, column 2, lines 8-9) comprising a duration field value (Fig. 3, duration of HV-I is 330 us, column 8, lines 60-61) to a first station (Bluetooth radio transceiver, column 4, line 25) via a shared-communications channel (Fig. 4, HV1, forward and reverse links) in accordance with a first modulation scheme (Frequency Shift Keying (FSK) modulation, column 8, lines 44-45) , and for determining whether the second station is in power save mode (IEEE 802.11 transmission is held back or in the Park mode if the Bluetooth ACL packet transmission or reception is in progress (column 11, lines 1-6). This causes the IEEE 802.11 to be in a power save mode since it is being held back); and

a receiver (Bluetooth radio transceiver, column 4, line 25) for receiving a second frame (Beacon frames sent at a regular interval by an AP, column 2, lines 5-6) from a second station (IEEE 802.11 radio transceiver, column 4, line 24) via said shared-communications channel in accordance with a second modulation scheme (PPM, pulse position modulation, column 1, lines 39-40) during a time interval (Fig. 4, TS1 – TS8) defined by said duration field value; and

receiving a third frame (Probe Response frames sent by the AP, column 2, lines 9-10) via said shared-communications channel in accordance with said first modulation scheme after said time interval (Fig. 4, TS3);

wherein said first modulation scheme is undetectable to said second station; and

wherein said first modulation scheme and said second modulation scheme are different from each other.

Awater et al. teaches the limitations of the claims including station, communication channel and modulation. But, Awater et al. fails to specifically teach second station in power save.

However, Gray et al. teaches transmission on the reverse link dedicated control channel when transition indicated that the control hold to the control hold power save occurs, the reverse link dedicated channel is turned off, column 7, lines 28-32.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use Gray et al.'s power save because this would have allowed the dedicated channel to be maintained, and signaling required to obtain a dedicated channel to be minimal, column 7, lines 39-41.

Regarding Claim 35, it is the corresponding apparatus claim to method **Claim 17**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 36, it is the corresponding apparatus claim to method **Claim 18**. Therefore, it is rejected for the same reasons explained above.

Regarding Claim 37, it is the corresponding apparatus claim to method **Claim 19**. Therefore, it is rejected for the same reasons explained above.

Citation of Pertinent Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hirsch et al. (Pub. No.: US 2003/0128684 A1) discloses coexistence of modulation schemes in a WLAN.

Kandala (Pub. No.: US 2004/0131019 A1) discloses system and method for synchronizing an IEEE 802.11 power-save interval.

Sherman (Pub. No.: US 2006/0002357 A1) discloses method for enabling interoperability between data transmission systems conforming to IEEE 802.11 and HIPERLAN standards.

Reisinger (Pub. No.: US 2002/0027500 A1) discloses method and apparatus for protecting a transmission path between a base unit and a mobile key unit.

Borth et al. (Patent Number: 5,392,300) discloses dual-mode radio communication unit.

Lee et al. (Patent No.: US 6,996,415 B2) discloses system and method for transmitting data on a reverse link channel.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon Andrews whose telephone number is (571) 270-1801. The examiner can normally be reached on Monday through Friday 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rao S. Seema can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Seema S. Rao/
Supervisory Patent Examiner, Art Unit 2616

LA/la
August 20, 2008